

Release Note 77

System: Honeywell TIP 420 (from 410)

Date of First Release: 1 December 1978

1. An optional package allowing flow control on a TIP port is now available, to be used in conjunction with special hardware. Both input and output may be controlled providing the terminal is capable of operating the special hardware. If the package is present in a TIP, two new commands allow the user to enter and leave flow control mode:

@FLOW CONTROL  
@CLEAR FLOW CONTROL.

2. An optional and experimental package now exists implementing the XON-XOFF protocol for output flow control (to the terminal) on a TIP port. For the present, this package (if present on a TIP) will only be invoked by a device code setting in the site parameters file.

3. The parameters file for each TIP site may now include settings for flow control, XON-XOFF protocol, and for desires (ie. will accept) binary input and output. The settings for binary, however, will only be effective when the port is in New Telnet mode. For hunting ports, binary output desired will be the default.

4. Patches to version 410 were incorporated including:

- a) change to the HOST34 word to conform to a change in the IMP;
- b) change to page 0 constants locations to conform to the IMP;
- c) addition of parity to characters echoed when in both RCTE and parity modes;
- d) removal of a number of traps to the NCC that were no longer useful;
- e) correction of the Initial Connection Protocol code so that a network host status program receives an expected response;
- f) change in the default state of ports to New Telnet mode and desires (will accept) remote echo mode, with physical halfduplex allowed to override remote echo;
- g) correction that removes RCTE and binary modes when a New Telnet connection closes;

h) reduction of the time input is locked out during New Telnet negotiations.

5. The message "TIP Going Down in <time> for <time>" now gives the "for" time in hours and minutes instead of just hours. Previously there was no way to indicate a down time of less than an hour.

6. The table used in communication with the TIPSTAT program on Tenex was changed to provide more information.

7. There was some internal reorganization of code both for clarity and to remove page faults.

8. The mode flag indicating Old or New Telnet for each port was reversed in sense, making the eventual removal of Old Telnet more convenient.

9. The routine that puts a port into remote echo mode now also automatically sets the port to "transmit every character".

10. A newly defined location called TIPEND (37745) contains the address of the last word of core used by the TIP. Utility processes such as VDH load will be able to determine if there is enough space before sending files to the TIP.

11. The USERID facility, once used by RSEXEC and the TIP login mechanism, was removed from active code and placed in conditional assembly with the rest of the TIP login code.

12. The RCTE option was largely rewritten both to fix known deficiencies and to incorporate changes in the official option specification. Changes include the revision of code used to enter RCTE mode, and implementation of transmission classes and of the newly defined RCTE synch mechanism. The RCTE synch code, however, is currently bypassed (and not completely tested) because Server Hosts' RCTE synch code is either untested or not working correctly and both sides must be completely coordinated to work properly.

13. RCTE changes required revisions to the New Telnet negotiation timeout code and an increase in the timeout interval.

14. The @SEND ABORT OUTPUT command is no longer followed by an automatic synch (Host-Host INS and Telnet datamark); this change avoids a potential problem with the new RCTE synch mechanism, which makes special use of the Telnet Abort Output command.